

## **Evaluating Particulate Control Technologies**

The Air Resources Board (ARB) staff, working with the Stationary Source Subcommittee (Subcommittee), is evaluating technologies that reduce particulate emissions from diesel fueled engines. During the August 24, 1999, Subcommittee meeting, ARB staff agreed to develop criteria that could be used to evaluate particulate control technologies. Staff drafted evaluation criteria and presented this information during a September 2, 1999, teleconference. Subcommittee members provided many comments and suggestions at this meeting. The evaluation criteria presented in the attached tables incorporate comments received during the August 24 meeting and the September 2 teleconference. ARB staff intend to complete these tables for each product that is reported to reduce particulate emissions from diesel engines.

If there are any questions, please contact Robert Hughes at (916) 327-5608 or via email at [rhughes@arb.ca.gov](mailto:rhughes@arb.ca.gov); or Michael Tollstrup, Manager, Project Support Section, at (916) 323-8473 or via email at [mtollstr@arb.ca.gov](mailto:mtollstr@arb.ca.gov).

## Control Technology Evaluation

Item	Response
<b>Product Name:</b>	
<b>Product Vendor:</b>	
<b>Vendor Address:</b>	
<b>Product Description:</b> (What is the product, and how does it work?)	
<b>Applicability:</b> (What types of engines can the product be installed on?)	
<b>Manufacturer's Emission Reduction Claim:</b> (What level of emission reduction can be achieved? Address: EC, SOF, and SO <sub>3</sub> ?)	
<b>Certifications:</b> (Identify certifications the product has received, and explain any limits on the certifications.)	
<b>Emission Test Results:</b> (Summarize emission test results and describe in detail on the attached table.)	
<b>Product Costs:</b> <b>Initial:</b>  <b>Installation:</b>  <b>Operating:</b>  <b>Maintenance:</b>	
<b>Comments:</b>	
<b>Durability / Product Life:</b> (How long can the product be expected to function under normal operating conditions and still achieve the specified emission reductions?)	

<b>Product Warranty:</b> (Identify the type of warranty and its duration.)	
<b>Affect on Engine Warranty:</b> (When possible, identify any impact the product may have on an engine's warranty.)	
<b>Adverse Impacts:</b> (For example, does the product create a hazardous byproduct? Attach MSDS sheet if applicable.) <b>Environmental:</b>  <b>Safety:</b>	
<b>Special Operating Requirements:</b> (e.g. ultra-low sulfur fuel or minimum exhaust temperature, etc...)	
<b>Current Status:</b> (Is the product commercially available, or is it still under development. How many engines has the product been installed on, and how long has the product been in use?)	
<b>Other:</b> (e.g. fuel penalty, reduced product life, weight, affect on engine performance, etc...)	
<b>Comments:</b> (Address other issues relevant to the use of this product, including other advantages / disadvantages of using the product.)	

## List of Stationary &/or Portable Applications

**Product Name:**

Facility / Operator	Engine Information	Permit / Registration	Number of Applications	Time in Service	PM Emission Limit	PM Emission Test Results
	Make: Model: Application: Fuel Type:					
	Make: Model: Application: Fuel Type:					
	Make: Model: Application: Fuel Type:					
	Make: Model: Application: Fuel Type:					

## List of Emission Test Results

**Product Name:**

Method & Type of Test	Source Test Company	Engine Information	Fuel Type	Baseline PM Emission Rate	PM Emission Rate w/ Controls	Control Efficiency
		Make: _____ Model: _____ Year: _____ BHP: _____ Application: _____ Configuration: _____ Engine Hours: _____ Fuel Use: _____ Exhaust Temp: _____				
		Make: _____ Model: _____ Year: _____ BHP: _____ Application: _____ Configuration: _____ Engine Hours: _____ Fuel Use: _____ Exhaust Temp: _____				
		Make: _____ Model: _____ Year: _____ BHP: _____ Application: _____ Configuration: _____ Engine Hours: _____ Fuel Use: _____ Exhaust Temp: _____				